

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 19755-19755A

Winston C vault Bonus

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I35916678 thru I35916689

My license renewal date for the state of North Carolina is December 31, 2019.

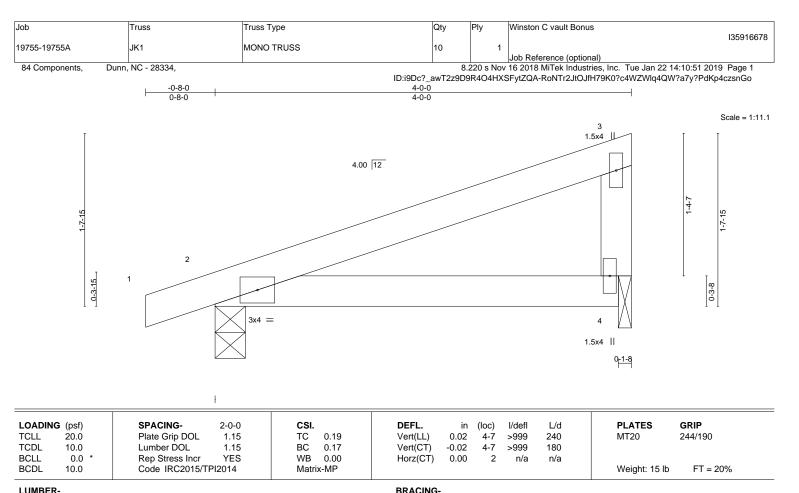
North Carolina COA: C-0844



January 23,2019

Johnson, Andrew

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.



TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

BOT CHORD **WEBS** 2x4 SP No.3

REACTIONS. 2=198/0-3-8, 4=151/0-1-8 (lb/size) Max Horz 2=43(LC 11) Max Uplift 2=-62(LC 12), 4=-42(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



Structural wood sheathing directly applied or 4-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

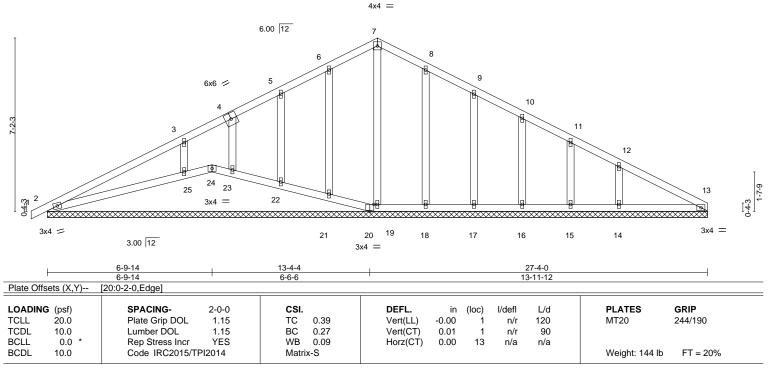
ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Sefety Information, available from Truss Plate pictities 218 N. Les Street, Suite 312, Alexanderia, VA 22314. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Winston C vault Bonus 135916679 19755-19755A T1AGE GABLE Job Reference (optional) 84 Components, Dunn, NC - 28334, 8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:10:52 2019 Page 1 ID:B86d_O3qmX394qlcAhGzWryKJF9-v_xr3OJV9dn7lJvCZKbl5jlxhqqlJZn9eH3Mc2zsnGn 0-8-0 6-9-14 6-10-2 13-8-0

Scale: 1/4"=1'



LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD **OTHERS** 2x4 SP No.3 **BRACING-**

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 24-25,23-24.

REACTIONS. All bearings 27-4-0.

(lb) -Max Horz 2=120(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 25, 18, 17, 16, 15, 14 except 24=-126(LC 3) Max Grav All reactions 250 lb or less at joint(s) 13, 2, 24, 20, 19, 21, 22, 23, 18, 17, 16, 15 except 25=519(LC 21), 14=299(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 3-25=-343/184

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 21, 22, 25,
- 18, 17, 16, 15, 14 except (jt=lb) 24=126. 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 24, 21, 22, 23, 25.



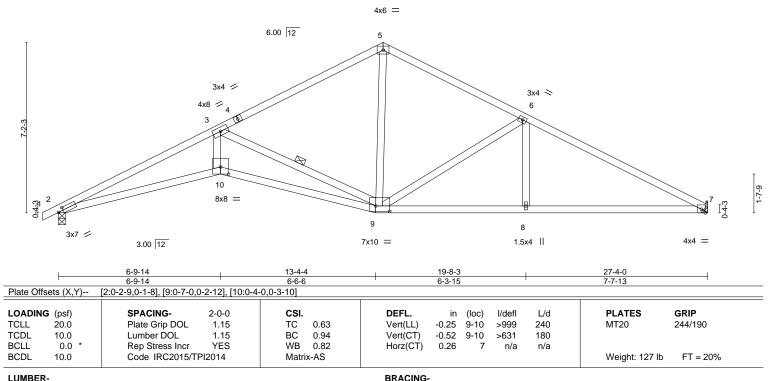
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid for use only with release controlled in the controlle



Job Truss Truss Type Qty Ply Winston C vault Bonus 135916680 SPECIAL 19755-19755A T1AV | Job Reference (optional) 8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:10:54 2019 Page 1 Dunn, NC - 28334, 84 Components, ID:B86d_O3qmX394qlcAhGzWryKJF9-sN3bT3LlhE1r?c3bgleDA8NETdMpnlzS5bYTgxzsnGl 19-8-3 -0-8-0 0-8-0 6-9-14 6-10-2 6-0-3 7-7-13

Scale = 1:48.5



TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (lb/size) 7=1093/Mechanical, 2=1134/0-3-8

Max Horz 2=120(LC 11)

Max Uplift 7=-53(LC 12), 2=-73(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3623/552, 3-5=-1362/288, 5-6=-1320/292, 6-7=-1913/321 **BOT CHORD** 2-10=-438/3282, 9-10=-450/3432, 8-9=-199/1656, 7-8=-199/1656 WEBS 3-10=-138/1738, 3-9=-2447/419, 5-9=-98/743, 6-9=-673/176, 6-8=0/301

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

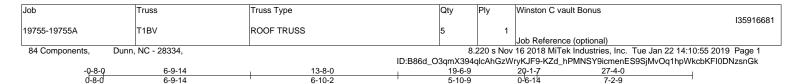


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

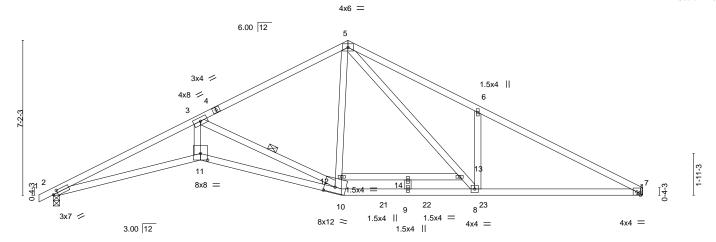




5-10-9

6-10-2

Scale = 1:53.4



	6-9-14	13-4-4	16-5-6	19-6-9	1	27-4-0	
	6-9-14	6-6-6	3-1-2	3-1-2		7-9-7	ı
Plate Offsets (X,Y)-	- [2:0-2-8,0-1-8], [10:0-6-0,0-3-2], [11	0-4-0,0-3-10]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 20.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.66 BC 0.95	Vert(LL) Vert(CT)	-0.25 10-11 -0.53 10-11	>999 240 >617 180	MT20	244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.79 Matrix-AS	Horz(CT)	0.26 7	n/a n/a	Weight: 138 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 *Except* 12-13: 2x4 SP No.2

0-8-0

6-9-14

(lb/size) 7=1093/Mechanical, 2=1134/0-3-8 Max Horz 2=120(LC 11)

Max Uplift 7=-53(LC 12), 2=-73(LC 12) Max Grav 7=1140(LC 30), 2=1162(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-3732/551, 3-5=-1428/288, 5-6=-2044/460, 6-7=-2020/322 TOP CHORD

BOT CHORD $2\text{-}11\text{=-}437/3380,\ 10\text{-}11\text{=-}449/3534,\ 9\text{-}10\text{=-}48/1186,\ 8\text{-}9\text{=-}48/1186,\ 7\text{-}8\text{=-}200/1751}$ **WEBS** 3-11=-137/1782, 3-10=-2492/418, 10-12=-10/446, 5-12=-6/460, 5-13=-220/891,

8-13=-229/879, 6-8=-460/236

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 8) Load case(s) 26, 27, 28, 29, 30 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 9) MULTIPLE LOADCASES This design is the composite result of multiple load cases.
- 10) User moving load cases exist: Review the load cases for details.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:



Structural wood sheathing directly applied.

Rigid ceiling directly applied

1 Row at midpt

Continued on page 2

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Winston C vault Bonus	
19755-19755A	T1BV	ROOF TRUSS	_	1		135916681
19700-19700A	TIDV	ROOF INUSS	5	!	Job Reference (optional)	

84 Components, Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:10:55 2019 Page 2 ID:B86d_O3qmX394qlcAhGzWryKJF9-KZd_hPMNSY9icmenES9SjMvOq1hpWkcbKFI0DNzsnGk

LOAD CASE(S)

26) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F), 5-7=-60(F), 11-18=-20(F), 10-11=-20(F), 10-15=-20(F)

27) 1st User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F), 5-7=-60(F), 11-18=-20(F), 10-11=-20(F), 10-21=-50(F=-20), 15-21=-20(F)

28) 2nd User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60(F), 5-7=-60(F), 11-18=-20(F), 10-11=-20(F), 10-21=-20(F), 21-22=-50(F=-20), 15-22=-20(F) 29) 3rd User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F), 5-7=-60(F), 11-18=-20(F), 10-11=-20(F), 10-22=-20(F), 22-23=-50(F=-20), 15-23=-20(F)

30) 4th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F), 5-7=-60(F), 11-18=-20(F), 10-11=-20(F), 10-22=-20(F), 8-22=-50(F=-20), 8-15=-20(F)



Job Truss Truss Type Qty Winston C vault Bonus 135916682 19755-19755A T1CV ROOF TRUSS | Job Reference (optional) 8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:10:56 2019 Page 1 84 Components, Dunn, NC - 28334,

6-10-2

ID:B86d_O3qmX394qlcAhGzWryKJF9-olBMulM?DsHZEwDzoAghGZSZZR12FBskZv1alpzsnGj

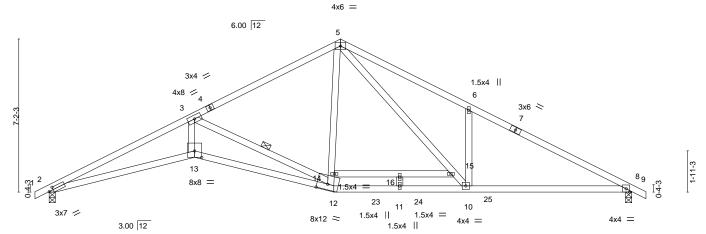
19-6-9 20-1-7 0-6-14 27-4-0 28-0-0 0-8-0 5-10-9 7-2-9

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:54.0



1	6-9-14	13-4	-4	16-5-6	19-6-9		27-4	-0	1
ı	6-9-14	6-6-	6	3-1-2	3-1-2	II.	7-9-	-7	I
ets (X,Y)	[2:0-2-8,0-1-8], [12:0-6-0,0-3	-2], [13:0-4-0,0-3-10]							
(psf)	SPACING- 2	·0-0 CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
20.0	Plate Grip DOL	.15 TC	0.66	Vert(LL)	-0.25 12-13	>999	240	MT20	244/190
10.0	Lumber DOL	.15 BC	0.95	Vert(CT)	-0.53 12-13	>617	180		
0.0 *	Rep Stress Incr	'ES WB	0.79	Horz(CT)	0.26 8	n/a	n/a		
10.0	•	14 Matr	ix-AS	- (- /				Weight: 139 lb	FT = 20%
	(psf) 20.0 10.0 0.0 *	6-9-14 ets (X,Y) [2:0-2-8,0-1-8], [12:0-6-0,0-3- (psf) SPACING- 2- 20.0 Plate Grip DOL 1- 10.0 Lumber DOL 1- 0.0 * Rep Stress Incr	6-9-14 6-6- ets (X,Y) [2:0-2-8,0-1-8], [12:0-6-0,0-3-2], [13:0-4-0,0-3-10] (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.15 TC 10.0 Lumber DOL 1.15 BC 0.0 * Rep Stress Incr YES WB	6-9-14 6-6-6 ets (X,Y) [2:0-2-8,0-1-8], [12:0-6-0,0-3-2], [13:0-4-0,0-3-10] (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.15 TC 0.66 10.0 Lumber DOL 1.15 BC 0.95 0.0 * Rep Stress Incr YES WB 0.79	6-9-14 6-6-6 3-1-2	6-9-14 6-6-6 3-1-2 3-1-2 ets (X,Y) [2:0-2-8,0-1-8], [12:0-6-0,0-3-2], [13:0-4-0,0-3-10] (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 20.0 Plate Grip DOL 1.15 TC 0.66 Vert(LL) -0.25 12-13 10.0 Lumber DOL 1.15 BC 0.95 Vert(CT) -0.53 12-13 0.0 * Rep Stress Incr YES WB 0.79 Horz(CT) 0.26 8	6-9-14 6-6-6 3-1-2 3-1-2 ets (X,Y) [2:0-2-8,0-1-8], [12:0-6-0,0-3-2], [13:0-4-0,0-3-10] (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 20.0 Plate Grip DOL 1.15 TC 0.66 Vert(LL) -0.25 12-13 >999 10.0 Lumber DOL 1.15 BC 0.95 Vert(CT) -0.53 12-13 >617 0.0 * Rep Stress Incr YES WB 0.79 Horz(CT) 0.26 8 n/a	6-9-14	6-9-14

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 *Except*

14-15: 2x4 SP No.2

(lb/size) 2=1133/0-3-8, 8=1133/0-3-8

6-9-14

Max Horz 2=121(LC 11)

Max Uplift 2=-72(LC 12), 8=-72(LC 12) Max Grav 2=1162(LC 27), 8=1140(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

 $2\hbox{-}3\hbox{-}3732/536,\ 3\hbox{-}5\hbox{-}-1428/287,\ 5\hbox{-}6\hbox{-}-2044/457,\ 6\hbox{-}8\hbox{-}-2020/320}$ TOP CHORD

BOT CHORD $2 - 13 = -413/3380,\ 12 - 13 = -423/3534,\ 11 - 12 = -36/1186,\ 10 - 11 = -36/1186,\ 8 - 10 = -187/1751$ **WEBS** 3-13=-124/1782, 3-12=-2492/403, 12-14=-10/446, 5-14=-6/460, 5-15=-219/891,

10-15=-227/879, 6-10=-458/235

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 7) Load case(s) 26, 27, 28, 29, 30 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 8) MULTIPLE LOADCASES This design is the composite result of multiple load cases.
- 9) User moving load cases exist: Review the load cases for details.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

26) User defined: Lumber Increase=1.15, Plate Increase=1.15

January 23,2019

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Winston C vault Bonus	
19755-19755A	T1CV	ROOF TRUSS	1	1		135916682
19733-19733A	1100		'	'	Job Reference (optional)	

84 Components, Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:10:56 2019 Page 2 ID:B86d_O3qmX394qlcAhGzWryKJF9-olBMulM?DsHZEwDzoAghGZSZZR12FBskZv1alpzsnGj

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-5=-60(F), 5-8=-60(F), 13-17=-20(F), 12-13=-20(F), 12-20=-20(F)

27) 1st User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F), 5-8=-60(F), 13-17=-20(F), 12-13=-20(F), 12-23=-50(F=-20), 20-23=-20(F)

28) 2nd User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F), 5-8=-60(F), 13-17=-20(F), 12-13=-20(F), 12-23=-20(F), 23-24=-50(F=-20), 20-24=-20(F)

29) 3rd User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F), 5-8=-60(F), 13-17=-20(F), 12-13=-20(F), 12-24=-20(F), 24-25=-50(F=-20), 20-25=-20(F)

30) 4th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F), 5-8=-60(F), 13-17=-20(F), 12-13=-20(F), 12-24=-20(F), 10-24=-50(F=-20), 10-20=-20(F)



Job Truss Truss Type Qty Winston C vault Bonus 135916683 19755-19755A T1D ROOF TRUSS | Job Reference (optional) 8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:10:58 2019 Page 1 84 Components, Dunn, NC - 28334, ID:wVSEC824Ncb18tixDQhBdDyKJCc-k8l6JROGITYHTENMvai9L_XxuElxjBD10CWhqizsnGh

13-8-0 14-8-0

12-8-0 5-7-5

20-3-5 5-7-5

Scale = 1:49.5

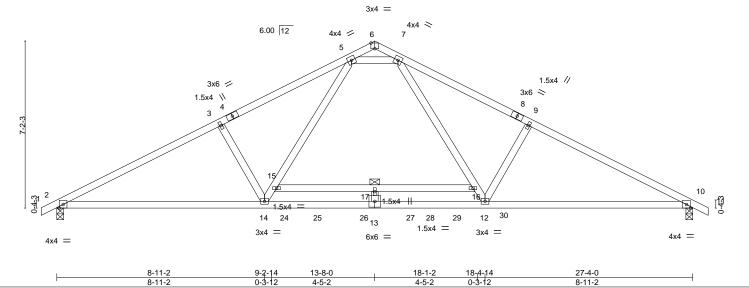


Plate Offsets (X,Y)	[6:0-2-0,Edge]			
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.54	DEFL. in (loc) I/defl L/d Vert(LL) -0.13 14-20 >999 240	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	BC 0.80 WB 0.41 Matrix-AS	Vert(CT) -0.31 14-20 >999 180 Horz(CT) 0.06 10 n/a n/a	Weight: 138 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied.

15-16

Rigid ceiling directly applied

1 Row at midpt

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS

2x4 SP No.3 *Except* 15-16: 2x4 SP No.2

(lb/size) 2=1133/0-3-8, 10=1133/0-3-8 Max Horz 2=-121(LC 10)

7-0-11 7-0-11

Max Uplift 2=-72(LC 12), 10=-72(LC 12) Max Grav 2=1171(LC 27), 10=1171(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2008/334, 3-5=-1837/357, 7-9=-1837/357, 9-10=-2008/334 TOP CHORD **BOT CHORD** $2\text{-}14\text{=-}206/1750,\ 13\text{-}14\text{=-}74/1247,\ 12\text{-}13\text{=-}74/1247,\ 10\text{-}12\text{=-}207/1750}$ **WEBS** 3-14=-428/196, 9-12=-428/196, 14-15=-85/668, 5-15=-79/693, 5-7=-1300/425,

7-16=-79/693, 12-16=-85/668

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- 6) Load case(s) 26, 27, 28, 29, 30, 31 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 7) MULTIPLE LOADCASES This design is the composite result of multiple load cases.
- 8) User moving load cases exist: Review the load cases for details.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

26) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60(F), 6-11=-60(F), 18-21=-20(F)



January 23,2019

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	Winston C vault Bonus	
19755-19755A	T1D	ROOF TRUSS				135916683
19755-19755A	110	ROOF IROSS	0	'	Job Reference (optional)	

84 Components, Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:10:58 2019 Page 2 ID:wVSEC824Ncb18tixDQhBdDyKJCc-k8I6JROGITYHTENMvai9L_XxuElxjBD10CWhqizsnGh

LOAD CASE(S)

27) 1st User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60(F), 6-11=-60(F), 18-24=-20(F), 24-25=-50(F=-20), 21-25=-20(F)

28) 2nd User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60(F), 6-11=-60(F), 18-25=-20(F), 25-26=-50(F=-20), 21-26=-20(F)

29) 3rd User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60(F), 6-11=-60(F), 18-26=-20(F), 26-27=-50(F=-20), 21-27=-20(F)

30) 4th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-60(F), 6-11=-60(F), 18-27=-20(F), 27-29=-50(F=-20), 21-29=-20(F)

31) 5th User Defined Moving Load - User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

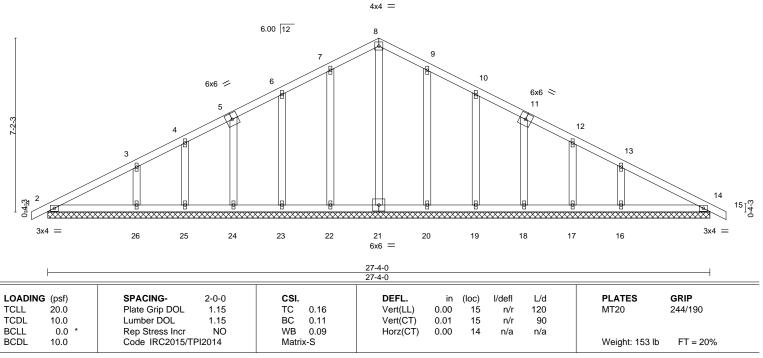
Vert: 1-6=-60(F), 6-11=-60(F), 18-28=-20(F), 28-30=-50(F=-20), 21-30=-20(F)



Job Truss Truss Type Qty Winston C vault Bonus 135916684 19755-19755A T1GE GABLE | Job Reference (optional) 8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:10:59 2019 Page 1 84 Components, Dunn, NC - 28334, ID:8WENP455I8JtK7v_I6JRbGyKJF7-CKsUXnPuWng85OyYTIDOtC4BYeGwSjVBFsGEM8zsnGg

Scale: 1/4"=1'

0-8-0



LUMBER-BOT CHORD

OTHERS

0-8-0

TOP CHORD 2x4 SP No.2 2x4 SP No.2

2x4 SP No.3

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing

13-8-0

REACTIONS. All bearings 27-4-0.

(lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16, 14

13-8-0

All reactions 250 lb or less at joint(s) 2, 21, 22, 23, 24, 25, 20, 19, 18, 17, 14 except 26=292(LC Max Grav

21), 16=292(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; b=30ft; b=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 23, 24, 25,
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 14.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Winston C vault Bonus 135916685 FINK 19755-19755A T2 10 | Job Reference (optional) 8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:11:01 2019 Page 1 84 Components, Dunn, NC - 28334, ID:GEvLXuWjB?uffdi9EcivuhytZRY-8j_FxTQ81OwsKh5xbjGszd9SMSmdwb8TjAlLQ1zsnGe 19-7-8 9-9-12 5-7-15 -0-8-0 0-8-0 4-1-13 5-7-15 4-1-13 Scale = 1:43.6 4x6 || 4 8.00 12 1.5x4 \\ 1.5x4 // 3

14-4-13 19-7-8 5-2-11 Plate Offsets (X,Y)--[2:0-0-0,0-0-11], [6:Edge,0-0-11] DEFL. **PLATES** GRIP LOADING (psf) SPACING-CSI. (loc) I/defI L/d 244/190 **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.46 Vert(LL) -0.24 7-9 >965 240 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.80 Vert(CT) -0.43 7-9 >542 180 MT18H 244/190 **BCLL** 0.0 Rep Stress Incr YES WB 0.21 Horz(CT) 0.03 6 n/a n/a

8

3x8 MT18H =

BRACING-TOP CHORD

BOT CHORD

17

7

3x4 =

16

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

10.0

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) 2=826/0-3-8, 6=784/0-3-8

Max Horz 2=130(LC 11)

4x4 =

Max Uplift 2=-58(LC 12), 6=-38(LC 12)

 $\textbf{FORCES.} \quad \text{(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.}$

Code IRC2015/TPI2014

TOP CHORD 2-3=-1166/122, 3-4=-1112/194, 4-5=-1115/195, 5-6=-1169/123

BOT CHORD 2-9=-54/1003, 7-9=0/602, 6-7=-55/916

WEBS 3-9=-263/155, 4-9=-56/557, 4-7=-57/561, 5-7=-265/155

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

9

3x4 =

Matrix-MS

- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



0-6-10

FT = 20%

4x4 =

Weight: 100 lb

Structural wood sheathing directly applied or 4-8-13 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Winston C vault Bonus 135916686 19755-19755A T2GE GABLE | Job Reference (optional) 8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:11:02 2019 Page 1 Dunn, NC - 28334, 84 Components, ID:8WENP455I8JtK7v_I6JRbGyKJF7-dvYd9oRmoi2jyrg78Qn5VqikUsInf4GdxqUuzTzsnGd 20-3-8 -0-8-0 0-8-0 9-9-12 9-9-12

4x4 =

8 6 8.00 12 5 10 11 3 4x8 4x8 || 22 21 20 19 18 17 16 15 14 6x6 =

Plate Off	sets (X,Y)	[2:0-0-9,0-0-13], [2:0-1-1	,0-5-2], [2:0-3-	8,Edge], [12:	0-0-9,0-0-13	3], [12:0-1-1,0-5-2],	[12:0-3	-8,Edge]			
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	12	n/r	90		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 116 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

19-7-8

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. All bearings 19-7-8.

Max Horz 2=133(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14

Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:44.8



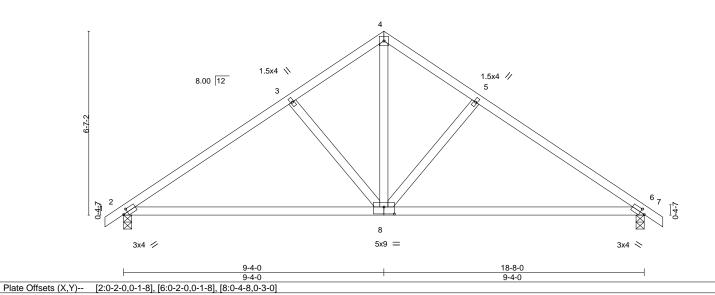
M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Winston C vault Bonus 135916687 19755-19755A T3 COMMON | Job Reference (optional) 8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:11:03 2019 Page 1 84 Components, Dunn, NC - 28334, ID:cjoldQ6j3SRkyHUBrqqg8UyKJF6-556?M8SOZ?Aaa?FJi8IK22Fp4FSaOUWmAUESVvzsnGc 18-8-0 19-4-0 0-8-0 -0-8-0 0-8-0 12-7-7 6-0-9 3-3-7 3-3-7 6-0-9 4x4 = Scale = 1:41.3



LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.45 BC 0.83 WB 0.28 Matrix-MS	DEFL. in (loc) I/defl L/d Vert(LL) -0.13 8-14 >999 240 Vert(CT) -0.29 8-14 >781 180 Horz(CT) 0.02 6 n/a n/a	PLATES GRIP MT20 244/190 Weight: 88 lb FT = 20%
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 88 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 2=787/0-3-8, 6=787/0-3-8

Max Horz 2=-127(LC 10)

Max Uplift 2=-56(LC 12), 6=-56(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-989/134, 3-4=-790/141, 4-5=-790/141, 5-6=-989/134 TOP CHORD

BOT CHORD 2-8=-17/777, 6-8=-17/777

WEBS 3-8=-304/137, 4-8=-104/683, 5-8=-305/137

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.

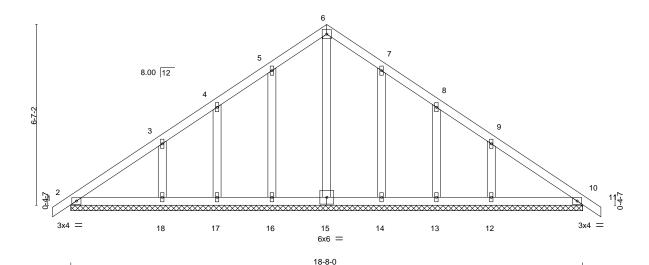


Structural wood sheathing directly applied or 5-0-4 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



Job Truss Truss Type Qty Winston C vault Bonus 135916688 19755-19755A T3GE GABLE | Job Reference (optional) 8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:11:04 2019 Page 1 84 Components, Dunn, NC - 28334, ID:WJatG1fh2ujJx4uDILOxhWytZQ4-ZIfNaUT1KJIQB9qWGrpZaFn2mfzN7_2wP8z?1LzsnGb 19-4-0 0-8-0 18-8-0 -0-8-0 0-8-0 9-4-0 9-4-0 Scale = 1:42.0 4x4 =



						10-0-0						
LOADING	G (psf)	SPACING- 2-0-	0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.1	5	TC	0.13	Vert(LL)	0.00	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1.1	5	BC	0.09	Vert(CT)	0.01	11	n/r	90		
BCLL	0.0 *	Rep Stress Incr N	o	WB	0.07	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matri	x-S						Weight: 103 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

BOT CHORD OTHERS 2x4 SP No.3

REACTIONS. All bearings 18-8-0.

Max Horz 2=-127(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 17, 18, 14, 13, 12, 10

All reactions 250 lb or less at joint(s) 2, 15, 16, 17, 14, 13, 10 except 18=270(LC 17), 12=269(LC Max Grav

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 17, 18, 14, 13, 12, 10.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

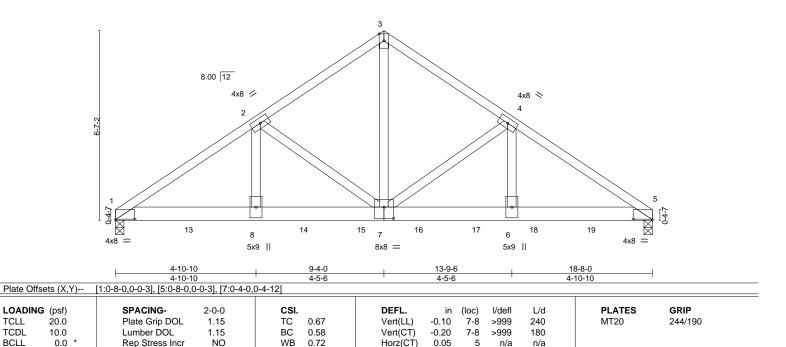
ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Sefety Information, available from Truss Plate pictities 218 N. Les Street, Suite 312, Alexanderia, VA 22314. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Winston C vault Bonus 135916689 COMMON 19755-19755A T3GR Job Reference (optional)
8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:11:06 2019 Page 1 84 Components, Dunn, NC - 28334, ID:yDwOrSBxtiP965oYjunU5hytbDa-Vgn8?AUHswY8RS_uNGr1fgtGmTYEbkQDsSS66EzsnGZ 13-9-6 18-8-0 4-10-10 4-5-6 4-5-6 4-10-10

4x6 ||



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TCLL

TCDL

BCLL

BCDL

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x6 SP DSS WEBS 2x4 SP No.3 *Except*

10.0

3-7: 2x4 SP No.2

REACTIONS. (lb/size) 1=6115/0-3-8, 5=5276/0-3-8

Max Horz 1=-118(LC 31)

Max Uplift 1=-347(LC 12), 5=-306(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-8399/552, 2-3=-5604/424, 3-4=-5603/424, 4-5=-8201/547 **BOT CHORD** $1-8=-394/6970,\ 7-8=-394/6970,\ 6-7=-390/6800,\ 5-6=-390/6800$

Code IRC2015/TPI2014

WFBS 3-7=-379/5874, 4-7=-2724/247, 4-6=-119/2747, 2-7=-2934/252, 2-8=-124/2971

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Matrix-MS

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; b=30ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=347. 5=306.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1124 lb down and 69 lb up at 0-7-4, 1120 lb down and 73 lb up at 2-7-4, 1120 lb down and 73 lb up at 4-7-4, 1120 lb down and 73 lb up at 6-7-4, 1120 lb down and 73 lb up at 8-7-4, 1073 lb down and 73 lb up at 10-7-4, 1073 lb down and 73 lb up at 12-7-4, and 1073 lb down and 73 lb up at 14-7-4, and 1073 lb down and 73 lb up at 16-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



Weight: 220 lb

Structural wood sheathing directly applied or 3-7-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

FT = 20%

Scale = 1:40.1

January 23,2019

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Qty Job Truss Truss Type Winston C vault Bonus 135916689 19755-19755A COMMON T3GR | **Z** | Job Reference (optional) 8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 22 14:11:06 2019 Page 2

Dunn, NC - 28334, 84 Components,

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 1-5=-20 Concentrated Loads (lb)

Vert: 8=-1120(F) 10=-1124(F) 13=-1120(F) 14=-1120(F) 15=-1120(F) 16=-1073(F) 17=-1073(F) 18=-1073(F) 19=-1073(F)

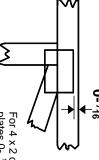


Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated. Center plate on joint unless x, y and fully embed teeth Apply plates to both sides of truss Dimensions are in ft-in-sixteenths.



plates 0- 1/16" from outside For 4 x 2 orientation, locate edge of truss.

connector plates. required direction of slots in This symbol indicates the

* Plate location details available in MiTek 20/20 software or upon request

PLATE SIZE

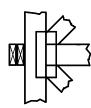
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. Indicated by symbol shown and/or

BEARING



Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

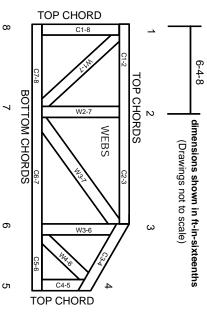
Industry Standards:

National Design Specification for Metal

DSB-89: ANSI/TPI1:

Guide to Good Practice for Handling **Building Component Safety Information** Design Standard for Bracing. Connected Wood Trusses. Installing & Bracing of Metal Plate Plate Connected Wood Truss Construction.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

established by others. section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building
- Cut members to bear tightly against each other

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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7.

- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.